



November 13, 2025

**City of Granbury Water and Sewer Relocation Improvements for the US 377 Breakout Project
Contract C: US 377 Water and Sewer**

Addendum No. 2

Attention is called to the following modifications to the Plans, Specifications and Contract Documents for the above referenced project. The City of Granbury will receive sealed Proposals for Contract C: US 377 Water and Sewer Project until 10:00 a.m. local time on Thursday, November 20, 2025, at the City Service Center located at 401 N. Park Street, Granbury, Texas 76048. We hereby modify the documents as follows:

CONTRACT DOCUMENTS:

The attached Appendix A: Geotechnical Data shall be added as an appendix to the Project Manual. This geotechnical data includes completed bore logs from the **Preliminary** Geotechnical Data Report for the US 377 Improvements Project, Hood County, CSJ: 0080-03-049

PLANS:

1. **DELETE** Sheet No. 17 – Utility Details and **REPLACE** with the attached revised Sheet. This sheet has been revised to show the PRV Assembly Detail.

SPECIFICATIONS:

1. **REVISE** Section 02665 – Water Systems, Part 2.6.E (Pressure Reducing Valves), Item 3 to state the following:

“3. Options: Include upstream and downstream pressure gauges, “Y” strainer, stainless steel pilot system, and valve position indicator.”

This addendum consists of ninety (90) pages. This addendum becomes a part of the Proposal Documents and **SHALL BE ACKNOWLEDGED** by the bidder on the Proposal Form submitted.


By: Christopher S. Hay, P.E.
Project Engineer



11/13/2025

APPENDIX A

Geotechnical Data



SCALE IN FEET



- O-2 (30')
- P-1 (20')
- RW-1 (40')
- RW-2 (40')
- RW-3 (30')
- RW-4 (30')
- RW-5 (30')
- RW-6 (30')
- RW-12 (30')
- RW-18 (30')
- RW-19 (40')
- RW-20 (30')
- RW-22 (40')
- RW-23 (30')
- RW-27 (40')
- RW-28 (20')
- RW-29 (30')
- RW-30 (30')
- RW-31 (30')
- RW-32 (20')
- RW-33 (30')
- RW-38 (30')
- RW-40 (30')
- RW-46 (30')
- RW-45 (40')
- P-3 (20')
- P-4 (20')
- P-13 (20')
- P-14 (20')
- P-15 (20')
- P-16 (20')
- P-5 (20')
- P-6 (20')
- HA-4 (5')
- BR-5 (120')
- BR-9 (100')
- BR-10 (120')
- B-13 (100')



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole HA-4
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/24/23
Grnd. Elev. 744.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
742.			CLAY, brown, sandy, lean (CL)			6	46	29		-200=57%
			WEATHERED LIMESTONE, hard, tan							
739. 5										
10										
15										
20										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434211, Longitude: -97.797350. Hand Auger: 0'-5'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-01
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/25/23
Grnd. Elev. 769.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		8 (6) 8 (6)	CLAY, soft, gray to reddish brown, with sand, lean (CL)			6	36	23		-200=70%; SS = 9-9-15
						6				SS = 6-6-5
762.5						18	61	45		-200=66%; PP = 4.5+ tsf
10		10 (6) 12 (6)	CLAY, stiff, brown to light brown, sandy, fat (CH)			15				Sulfate Content = 36.8 ppm
										Chloride Content = 80 ppm
										PP = 3.75 tsf
757.5										Organic Content = 1.6%
15		34 (6) 50 (5)	CLAY, hard, tan, sandy, lean (CL)							
20		50 (0.25) 50 (0.25)				8	26	12		-200=63%; SS = 28-33-31
						1				Run:20'-25'; Rec=93%; RQD=56%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434933, Longitude: -97.803714. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-20'; Wet Rotary: 20'-40'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



WinCore
Version 3.3

DRILLING LOG

2 of 2

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-01
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/25/23
Grnd. Elev. 769.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0.25) 50 (0)	LIMESTONE, very hard, tan to gray, slightly weathered			1				Run:25'-30'; Rec=93%; RQD=71%
30		50 (0.25) 50 (0.125)			1				Run:30'-35'; Rec=93%; RQD=63%	
35		50 (0.25) 50 (0.25)			1				Run:35'-40'; Rec=78%; RQD=9%	
729.40		50 (0.25) 50 (0.25)								
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434933, Longitude: -97.803714. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-20'; Wet Rotary: 20'-40'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-02
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/26/23
Grnd. Elev. 767.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
765.			CLAY, brown, sandy, lean (CL)			12	34	21		-200=65%; SS = 8-6-5
						15				
			CLAY, stiff, brown to reddish brown, with sand, fat (CH)							PP = 4.5+ tsf Sulfate Content = 160 ppm
5		10 (6) 12 (6)								
						16	57	40		-200=88%; PP = 4.5+ tsf
759.										
			CLAY, stiff to hard, light brown, with calcareous deposits and sand, lean (CL)			13				SS = 10-11-13
10		10 (6) 17 (6)								
15		16 (6) 16 (6)								
						14	38	25		-200=78%; SS = 5-7-10
20		50 (5) 50 (2)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434869, Longitude: -97.803192. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-20'; Wet Rotary: 20'-40'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-02
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/26/23
Grnd. Elev. 767.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
745.			CLAY, stiff to hard, light brown, with calcareous deposits and sand, lean (CL)							SS = 50/3.5"
			LIMESTONE, very hard, light gray, slightly weathered			1				Run:22'-25'; Rec=67%; RQD=59% DD = 148 pcf; UC = 190 tsf
25		50 (1) 50 (0.25)				1				Run:25'-30'; Rec=96%; RQD=84%
30		50 (1) 50 (0.25)				1				Run:30'-35'; Rec=92%; RQD=95% DD = 154 pcf; UC = 425 tsf
35		50 (1) 50 (0.25)				1				Run:35'-40'; Rec=28%; RQD=0% DD = 148 pcf; UC = 161 tsf
727. 40		36 (6) 50 (3)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434869, Longitude: -97.803192. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-20'; Wet Rotary: 20'-40'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-03
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/26/23
Grnd. Elev. 768.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		52 (6) 23 (6)	CLAY, very stiff, dark brown to reddish brown, with calcareous deposits and sand, lean (CL)			10	36	21		-200=84%; PP = 4.5+ tsf Sulfate Content = 71 ppm Chloride Content = 60 ppm PP = 4.5+ tsf
						11				
760.						13	46	31		-200=82%; PP = 4.5+ tsf
10		50 (1.5) 50 (0.5)	CLAY, very hard, tan, sandy, lean (CL)			11				SS = 4-5-22
15		50 (0.5) 50 (0.25)								
748.		50 (1.5) 50 (0.5)				4	28	16		-200=65%; SS = 50/2"
20		50 (1.5) 50 (0.5)				1				Run:20'-25'; Rec=85%; RQD=0%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434817, Longitude: -97.802831. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-20'; Wet Rotary: 20'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-03
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/26/23
Grnd. Elev. 768.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0.5) 50 (0.25)	LIMESTONE, very hard, gray, with clay seams, moderatly to highly weathered			1				DD = 150 pcf; UC = 87 tsf
738. 30		50 (0.25) 50 (0.125)								Run:25'-30'; Rec=83%; RQD=25%
35										
40										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434817, Longitude: -97.802831. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-20'; Wet Rotary: 20'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-04
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/18/23
Grnd. Elev. 773.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
770.5			GRAVEL, tan, clayey, with sand and limestone fragments (GC)			3	21	9		-200=24%; SS = 21-24-7
769.5			CLAY, tan, with sand and limestone fragments, lean (CL)			12	47	29		-200=82%; SS = 5-15-50/5"
			WEATHERED LIMESTONE, very hard, tan							Sulfate Content = 165 ppm Chloride Content = 120 ppm
5		50 (0.25) 50 (0.25)								Run:5'-10'; Rec=97%; RQD=88%
						1				DD = 142 pcf; UC = 92 tsf
765.						9				DD = 141 pcf; UC = 437 tsf
			LIMESTONE, very hard, gray, with clay seams, slightly weathered							Run:10'-15'; Rec=98%, RQD=93%
10		50 (0.25) 50 (0)								
15		50 (0.25) 50 (0)				7				Run:15'-20'; Rec=95%; RQD=95%
20		50 (0.125) 50 (0)								Run:20'-25'; Rec=95%; RQD=93%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434479, Longitude: -97.801314. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-5'; Wet Rotary: 5'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-04
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/18/23
Grnd. Elev. 773.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0) 50 (0)	LIMESTONE, very hard, gray, with clay seams, slightly weathered							Run:25'-30'; Rec=100%; RQD=100%
743. 30		50 (0.25) 50 (0.125)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434479, Longitude: -97.801314. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-5'; Wet Rotary: 5'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-05
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 769.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
767.			GRAVEL, tan, clayey, with sand and limestone fragments (GC)			3	27	15		-200=16%; SS = 32-17-9
			WEATHERED LIMESTONE, very hard, gray, with seams of shale			4				SS = 50/6" DD = 137 pcf; UC = 570 tsf
5		50 (0.5) 50 (0.25)				9				Run:5'-10'; Rec=80%; RQD=90%
										DD = 132 pcf; UC = 164 tsf
761.			LIMESTONE, very hard, gray, with seams of shale, slightly weathered			4				DD = 146 pcf; UC = 114 tsf
10		50 (0.25) 50 (0)								Run:10'-15'; Rec=98%; RQD=93%
15		50 (0) 50 (0)				1				Run:15'-20'; Rec=100%; RQD=100%
20		50 (0) 50 (0)				3				Run:20'-25'; Rec=100%; RQD=100%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434395, Longitude: -97.800678. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-5'; Wet Rotary: 5'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-05
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 769.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0.125) 50 (0)	LIMESTONE, very hard, gray, with seams of shale, slightly weathered			5				Run:25'-30'; Rec=98%; RQD=100%
739. 30		50 (0) 50 (0)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434395, Longitude: -97.800678. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-5'; Wet Rotary: 5'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-06
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/18/23
Grnd. Elev. 763.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
760.5			SAND, light brown, clayey, with gravel (SC)			5	23	11		-200=38%; SS = 11-8-6
759.			CLAY, dark gray, sandy, with limestone gravel, lean (CL)			10	38	25		-200=67%; SS = 36-50/4"
5		50 (0.125) 50 (0)	LIMESTONE, very hard, gray to tan, with bands of shale, slightly weathered							Run:5'-10'; Rec=88%; RQD=83%
						1				DD = 148 pcf; UC = 314 tsf
10		50 (0.125) 50 (0)								Run:10'-15'; Rec=83%; RQD=100%
15		50 (0) 50 (0)				1				Run:15'-20'; Rec=100%; RQD=100%
										DD = 148 pcf; UC = 566 tsf
20		50 (0) 50 (0.25)								Run:20'-25'; Rec=100%; RQD=100%
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434313, Longitude: -97.800057. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-5'; Wet Rotary: 5'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-06
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/18/23
Grnd. Elev. 763.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0) 50 (0)	LIMESTONE, very hard, gray to tan, with bands of shale, slightly weathered			1				Run:25'-30'; Rec=100%; RQD=100% DD = 148 pcf; UC = 366 tsf
733. 30		50 (0.25) 50 (0.25)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434313, Longitude: -97.800057. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-5'; Wet Rotary: 5'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-08
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/17/23
Grnd. Elev. 750.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
749.			PAVEMENT, 4.5" Asphalt over 8" Base			10				SS = 21-22-10
			SAND, dense to very dense, reddish brown to tan, poorly graded, with limestone gravel (SP)			4				-200=35%; SS = 13-34-50/3"
5		50 (6) 45 (6)				2				SS = 18-16-14
						3				-200=7%; SS = 14-13-32
10		50 (2) 50 (0.25)								SS = 50/1"
737.			LIMESTONE, very hard, tan to gray, slightly weathered							DD = 150 pcf; UC = 482 tsf
15		50 (0.25) 50 (0)				1				Run:15'-20'; Rec=100%; RQD=100%
20		50 (0.25) 50 (0)				1				Run:20'-25'; Rec=100%; RQD=100%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434153, Longitude: -97.798372. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-15'; Wet Rotary: 15'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-08
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/17/23
Grnd. Elev. 750.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0.5) 50 (0)	LIMESTONE, very hard, tan to gray, slightly weathered							DD = 153 pcf; UC = 543 tsf Run:25'-30'; Rec=97%; RQD=90%
720. 30		50 (0.125) 50 (0)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434153, Longitude: -97.798372. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-15'; Wet Rotary: 15'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

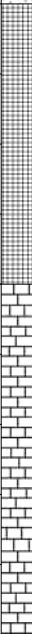
1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-12
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/28/23
Grnd. Elev. 752.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
745.5		9 (6) 9 (6)	SAND, loose, reddish brown to brown, clayey, silty (SC-SM)			3	19	5		-200=38%; SS = 22-18-19 Sulfate Content = 160 ppm
						2				SS = 13-10-22
			SAND, loose, tan, poorly-graded, with silt (SP-SM)			1				-200=6%; SS = 2-3-6
						3	20	3		-200=6%; SS = 3-4-8
741.		2 (6) 9 (6)	WEATHERED LIMESTONE, very hard, tan			1				Run:11'-15'; Rec=73%; RQD=57%
737.		15		50 (1) 50 (1)			1			Run:15'-20'; Rec=100%; RQD=100%
					LIMESTONE, very hard, tan, slightly to moderately weathered			1		
20		50 (1.5) 50 (0.5)	LIMESTONE, very hard, tan, slightly to moderately weathered			1				

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434298, Longitude: -97.798789. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-10'; Wet Rotary: 10'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-12
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/28/23
Grnd. Elev. 752.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0.5) 50 (0.5)	LIMESTONE, very hard, tan, slightly to moderatly weathered			1				Run:25'-30'; Rec=100%; RQD=77%
722. 30		50 (0.25) 50 (0.25)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434298, Longitude: -97.798789. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-10'; Wet Rotary: 10'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-15
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/17/23
Grnd. Elev. 735.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
734.			PAVEMENT, 2" Asphalt over 3" Base			9				-200=27%; SS = 33-17-16
733.			SAND, tan, clayey, with gravel, crushed base (SC)							
			WEATHERED LIMESTONE, very hard, tan, clayey, with sand			5				SS = 24-50/1"
730.	5	50 (1.5) 50 (0)	LIMESTONE, very hard, gray, moderately weathered							
										Run:5'-10'; Rec=75%; RQD=27%
10						1				
										Run:10'-15'; Rec=93%; RQD=43% DD = 155 pcf; UC = 319 tsf
15		50 (0.5) 50 (0)				1				
										Run:15'-20'; Rec=92%; RQD=67% DD = 157 pcf; UC = 440 tsf
715.	20	50 (0.25) 50 (0)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.43426556, Longitude: -97.79610635. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary:0'-5'; Wet Rotary: 5'-20'. Groundwater was not encountered during drilling. Caved in during drilling at 20'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-18
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/24/23
Grnd. Elev. 733.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		11 (6) 10 (6)	GRAVEL, slightly compact, reddish brown to tan, clayey, with sand and limestone gravel (GC)			2	21	10		-200=22%; SS = 15-18-15
						1	23	12		-200=14%; SS = 17-20-16
						1				SS = 5-6-7
10		50 (2) 50 (0.5)	LIMESTONE, very hard, gray, with clay seams, slightly to moderately weathered			3	23	11		-200=33%; SS = 11-23-24
						1				Run:10'-15'; Rec=87%; RQD=16% DD = 151 pcf; UC = 245 tsf
15		50 (0.5) 50 (0)								Run:15'-20'; Rec=77%; RQD=10%
20		50 (0.5) 50 (0)				1				Run:20'-25'; Rec=60%; RQD=0%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434290, Longitude: -97.794647. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-10'; Wet Rotary: 10'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-18
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/24/23
Grnd. Elev. 733.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			LIMESTONE, very hard, gray, with clay seams, slightly to moderately weathered							DD = 148 pcf; UC = 340 tsf
25		50 (4) 50 (0.5)								Run:25'-30'; Rec=55%; RQD=71%
703. 30		50 (0.5) 50 (0)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434290, Longitude: -97.794647. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-10'; Wet Rotary: 10'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-19
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 722.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5 715.5 714.		25 (6) 25 (6)	CLAY, very stiff, reddish-brown to tan, sandy, with limestone gravel pieces, lean (CL)			4	45	29		-200=55%; SS = 17-50/5"
						1				SS = 17-18-11
						6	30	16		-200=37%; SS = 11-42-33 Organic Content = 0.1%
			SAND, compact, tan, clayey, with limestone gravel (SC)							
10 15			CLAY, very stiff to very hard, gray, with sand, lean (CL)			17				SS = 8-11-22
		50 (4) 24 (6)								
						10	29	18		-200=75%; PP = 2.0 tsf Sulfate Content = 352 ppm Chloride Content = 100 ppm
						12				Run:15'-20'; Rec=82%; RQD=80%
15 705.5		50 (4) 50 (2.5)								
20			CLAY, very hard to hard, gray, with seams of limestone and gravel, lean (CL)							
		50 (1.5) 50 (1)				2				Run:20'-25'; Rec=80%; RQD=17%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434315, Longitude: -97.794359. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-15'; Wet Rotary: 15'-30'; Mud Rotary: 30'-40'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-19
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 722.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (2.5) 50 (1)	CLAY, very hard to hard, gray, with seams of limestone and gravel, lean (CL)			18	27	13		Run:25'-30'; Rec=27%, RQD=25% -200=97%
30		50 (4) 50 (2.5)								
690.5			GRAVEL, very dense, gray, clayey, silty, with sand and limestone gravel (GC-GM)			21				SS = 50/2"
35		50 (2) 50 (1)								-200=15%; SS = 50/6"
						11	19	4		
682.40		50 (1.5) 50 (0.5)								
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434315, Longitude: -97.794359. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-15'; Wet Rotary: 15'-30'; Mud Rotary: 30'-40'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-20
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 712.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		15 (6) 20 (6)	CLAY, stiff to hard, tan and gray, with gravel pieces, limestone fragments, and ferrous stains, lean (CL)			2				-200=40%; SS = 27-19-17
						12	26	11		-200=89%; SS = 6-11-12
						9	24	11		-200=82%; SS = 9-23-23 Organic Content = 0.1%
						6				SS = 50/0.5"
10		50 (0.5) 50 (0.25)								
						16	35	21		-200=90% SS = 13-15-13 Sulfate Content = 220 ppm
15		28 (6) 27 (6)				14				SS = 27-28-50/3.5"
692.20		50 (3) 50 (2)								Run:20'-25'; Rec=48%; RQD=31%
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434312, Longitude: -97.793052. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-20'; Wet Rotary: 20'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-20
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 712.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
687.25		50 (3) 50 (2)	CLAYSTONE, very hard, gray, partially cemented							Run:25'-30'; Rec=75%; RQD=78%
682.30		50 (0.25) 50 (0.25)	LIMESTONE, very hard, tan, with ferrous stains, slightly weathered							
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434312, Longitude: -97.793052. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-20'; Wet Rotary: 20'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-22
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/27/23
Grnd. Elev. 709.00 ft
GW Elev. 684.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
706.5			SAND, reddish brown, clayey, silty, with gravel and limestone fragments (SC-SM)			7	20	7		-200=37%; SS = 14-10-14 Organic Content = 0.1%
						8	17	4		-200=54%; SS = 8-14-12
702.5		23 (6) 27 (6)	CLAY, stiff, reddish brown, sandy, silty, lean (CL-ML)			10				SS = 9-10-8
						14				SS = 8-9-18 Sulfate Content = 141 ppm Chloride Content = 80 ppm
10		12 (6) 18 (6)	CLAY, very stiff to very soft, reddish brown, with sand, lean (CL)			11	27	12		-200=81%; SS = 6-6-12
						21				SS = 1-1-1
15		3 (6) 2 (6)								
20		1 (6) 2 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434375, Longitude: -97.788050. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary: 0'-30'; Wet Rotary: 30'-40'. Groundwater was encountered during drilling at 25'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-22
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/27/23
Grnd. Elev. 709.00 ft
GW Elev. 684.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			CLAY, very stiff to very soft, reddish brown, with sand, lean (CL)			22	24	8		-200=79%; SS = 3-3-4
25		1 (6) 1 (6)								SS = 1-1-1
30		3 (6) 4 (6)								
677.5						10				-200=46%; SS = 14-17-15
			GRAVEL, slightly compact to compact, reddish brown, clayey (GC)							
35		14 (6) 20 (6)								
						7				SS = 17-17-15
669.40		28 (6) 34 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434375, Longitude: -97.788050. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary: 0'-30'; Wet Rotary: 30'-40'. Groundwater was encountered during drilling at 25'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-23
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/18/23
Grnd. Elev. 703.00 ft
GW Elev. 699.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test	Properties				Additional Remarks
				Lateral Deviator Press. (psi) Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		2 (6) 2 (6)	CLAY, very soft, reddish brown with gray to reddish brown, with sand, lean (CL)		8	28	14		-200=75%; PP = 4.5+ tsf
					7				SS = 9-9-8 Organic Content = 0.6%
					19	26	12		-200=73%; SS = 4-4-4
					22	24	10		-200= 73%; Sulfate Content = 140 ppm
10		3 (6) 3 (6)			22	25	9		
15		2 (6) 3 (6)			20				-200=69%; SS = 4-4-4
									sandy at 16'
20		3 (6) 3 (6)							

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434442, Longitude: -97.787412. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-30'. Groundwater was encountered during drilling at 4'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-23
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/18/23
Grnd. Elev. 703.00 ft
GW Elev. 699.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
681.5			CLAY, very soft, reddish brown with gray to reddish brown, with sand, lean (CL)			18				-200=49%; SS = 3-3-3
			SAND, loose to slightly compact, reddish brown, clayey (SC)							
25		5 (6) 7 (6)								
						19				SS = 4-4-4
30		7 (6) 16 (6)								
671.5						4				-200=9%; SS = 9-7-8
			SAND, slightly compact, reddish brown, well graded, with gravel (SW)							
670.										
35										
40										

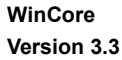
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434442, Longitude: -97.787412. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-30'. Groundwater was encountered during drilling at 4'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



2 of 2

District	Dallas
Date	8/1/23
Grnd. Elev.	776.00 ft
GW Elev.	762.00 ft

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433993, Longitude: -97.800522. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Rotary: 0'-25'; Wet Rotary: 25'-40'. Groundwater was encountered during drilling at 14'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-28
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/3/23
Grnd. Elev. 777.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
774.5			CLAY, gray, with sand and limestone fragments, lean (CL)			1	26	14		-200=39%; SS = 20-50/3" Organic Content = 1.0%
						5	30	18		
769.5		50 (2) 50 (1)	WEATHERED LIMESTONE, very hard, gray							-200=82%; SS = 50/4"
						16	59	35		
769.			LIMESTONE, very hard, gray, moderately weathered			1				Run:8'-10'; Rec=100%; RQD=79% DD = 145 pcf; UC = 205 tsf
						2				
757.20		50 (0.25) 50 (0)								Run:10'-15'; Rec=98%; RQD=39%
		50 (0) 50 (0)				1				Run:15'-20'; Rec=97%; RQD=93% DD = 148 pcf; UC = 398 tsf
		50 (0.25) 50 (0)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434083, Longitude: -97.801180. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-8'; Wet Rotary: 8'-20'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-29
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/3/23
Grnd. Elev. 778.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		50 (3) 50 (1)	CLAY, very hard, gray, gravelly, with sand and limestone fragments, lean (CL)			5	37	25		-200=60%; SS = 18-18-19
						11	40	26		-200=76%; PP = 4.5+ tsf
						6				SS = 50/2"
771.5			WEATHERED LIMESTONE, very hard, gray							Organic Content = 0.5%
						14	41	27		-200=80%; SS = 50/3"
768.	10	38 (1) 50 (1)	LIMESTONE, very hard, gray, slightly weathered							SS = 50/3.5"
						1				Run:15'-20'; Rec=100%; RQD=80%
15		50 (0.5) 50 (0.25)				2				Run:20'-25'; Rec=87%; RQD=88%
20		50 (0.25) 50 (0)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434203, Longitude: -97.801819. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-15'; Wet Rotary: 15'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



WinCore
Version 3.3

DRILLING LOG

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County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-29
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/3/23
Grnd. Elev. 778.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			LIMESTONE, very hard, gray, slightly weathered							DD = 151 pcf; UC = 711 tsf
25		50 (0.5) 50 (0.125)				1				Run:25'-30'; Rec=100%; RQD=45% DD = 144 pcf; UC = 201 tsf
748. 30		50 (0.25) 50 (0.5)								
35										
40										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434203, Longitude: -97.801819. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-15'; Wet Rotary: 15'-30'. Groundwater was not encountered during drilling. Caved in during drilling at 30'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-30
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/1/23
Grnd. Elev. 775.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
768.5 										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433337, Longitude: -97.800021. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA: 0'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-30
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/1/23
Grnd. Elev. 775.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
754.			CLAY, very hard, tan, with sand, fat (CH)							
			WEATHERED LIMESTONE, hard to very hard, tan, sandy, with seams of clay			6	31	21		-200=65%; SS = 50/2"
25		50 (3) 50 (1)								
						4				SS = 50/2"
745. 30		50 (2) 50 (1)								
35										
40										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433337, Longitude: -97.800021. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA: 0'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-31
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/27/23
Grnd. Elev. 766.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
763.5			CLAY, brown, with sand, fat (CH)			9	42	26		-200=82%; SS = 5-7-7
757.5			SAND, dense, reddish brown, clayey (SC)			9	54	37		-200=41%; SS = 8-10-13 Sulfate Content = 140 ppm
5		20 (6) 19 (6)				8				SS = 9-13-18
757.5			SAND, slightly compact to compact, reddish brown to tan, silty (SM)			3	18	2		-200=42%; SS = 5-5-6 Organic Content = 0.5%
10		11 (6) 12 (6)								
15		19 (6) 22 (6)								
20		40 (6) 35 (6)				2				SS = 9-11-17

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433156, Longitude: -97.799680. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA: 0'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



WinCore
Version 3.3

DRILLING LOG

2 of 2

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-31
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/27/23
Grnd. Elev. 766.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
741.25		50 (5.5) 50 (3.5)	SAND, slightly compact to compact, reddish brown to tan, silty (SM)			1	16	1		-200=21%; SS = 10-13-11
736.30		50 (1) 50 (0.25)	MARL, very hard, light brown, highly weathered			3				SS = 50/3"
35										SS = 50/3"
40										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433156, Longitude: -97.799680. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA: 0'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-32
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/2/23
Grnd. Elev. 753.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test	Properties				Additional Remarks
				Lateral Deviator Press. (psi) Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		34 (6) 40 (6)	SAND, dense, brownish red, clayey (SC)		5	26	14		-200=51%; SS = 10-13-14 Organic Content = 1.0%
					8				SS = 10-14-16
					5	34	21		-200=39%; SS = 20-19-15
10		30 (6) 50 (1.5)							
					6				SS = 8-14-11
741.					1				SS = 50/0.25"
					1				Run:12'-15'; Rec=100%; RQD=97%
15		50 (0.25) 50 (0)	LIMESTONE, very hard, tan to gray, slightly to moderatly weathered						
					1				Run:15'-20'; Rec=97%; RQD=98%
20		50 (0) 50 (0.125)							
					1				Run:20'-25'; Rec=90%; RQD=84%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433449, Longitude: -97.797547. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-12'; Water Rotary: 12'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-32
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/2/23
Grnd. Elev. 753.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0.25) 50 (0.125)	LIMESTONE, very hard, tan to gray, slightly to moderately weathered			1				Run:25'-30'; Rec=95%; RQD=39%
723. 30		50 (0) 50 (0)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433449, Longitude: -97.797547. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-12'; Water Rotary: 12'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-33
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/27/23
Grnd. Elev. 756.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
5		14 (6) 14 (6)	SAND, slightly compact, dark reddish brown, clayey, with gravel (SC)			3	32	19		-200=50%; SS = 11-16-16 Organic Content = 1.8% -200=22%; PP = 4.5+ tsf
						2	35	22		
747.5						1				SS = 9-5-3 -200=9%; SS = 15-20-25
						2	21	9		
10		11 (6) 50 (4)	SAND, compact to slightly compact, light brown, well graded, with clay and gravel (SW-SC)							Run:15'-20'; Rec=88%; RQD=49%
						1				
15		12 (6) 19 (6)								Run:20'-25'; Rec=97%; RQD=69%
739.5			LIMESTONE, very hard, tan to gray, with sandy clay seams, slightly weathered							
20		50 (0.5) 50 (0.25)				1				

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433349, Longitude: -97.798171. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-15'; Water Rotary: 15'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-33
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/27/23
Grnd. Elev. 756.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			LIMESTONE, very hard, tan to gray, with sandy clay seams, slightly weathered							DD = 152 pcf; UC = 431 tsf
25		50 (0.25) 50 (0)				1				Run:25'-30'; Rec=88%; RQD=81%
726. 30		50 (1) 50 (0.5)								DD = 159 pcf; UC = 1135 tsf
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433349, Longitude: -97.798171. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-15'; Water Rotary: 15'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-38
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/25/23
Grnd. Elev. 738.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
736.9			PAVEMENT, 9.5" Asphalt over 4" Base			9	25	11		-200=29%; SS = 7-5-5 Sulfate Content = 140 ppm
735.5			SAND, dense, dark brown, clayey, with limestone gravel (SC)			3	24	10		
			GRAVEL, dense, gray, clayey, with sand and limestone fragments (GC)							-200=20%; SS = 5-24-27 Organic Content = 0.4%
5		45 (6) 50 (6)								
731.5			SAND, very dense, reddish brown, well graded, gravelly (SW)			5	23	11		-200=19%; SS = 24-19-30
						3				
728.		50 (0.5) 50 (0.25)	LIMESTONE, very hard to hard, gray, moderately weathered							Run:10'-15'; Rec=100%; RQD=95%
15		50 (0.25) 50 (0.25)				1				
20		50 (0.25) 50 (0)								Run:15'-20'; Rec=100%; RQD=92% DD = 150 pcf; UC = 377 tsf
										Run:20'-25'; Rec=100%; RQD=87%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433655, Longitude: -97.794665. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-10'; Water Rotary: 10'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-38
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/25/23
Grnd. Elev. 738.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0.5) 50 (0)	LIMESTONE, very hard to hard, gray, moderatly weathered			1				Run:25'-30'; Rec=77%; RQD=50% DD = 153 pcf; UC = 171 tsf
708. 30		27 (6) 33 (6)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433655, Longitude: -97.794665. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-10'; Water Rotary: 10'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-39
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/20/23
Grnd. Elev. 729.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
727.			CLAY, reddish brown, sandy, with limestone fragments, lean (CL)			2				SS = 13-25-24 Sulfate Content = 46 ppm Chloride Content = 80 ppm
			LIMESTONE, very hard, gray, slightly to moderately weathered							SS = 50/3.5"
5		50 (2) 50 (1.5)				1				Run:5'-10'; Rec=40%; RQD=0% DD = 157 pcf; UC = 280 tsf
10		50 (1) 50 (0.5)								Run:10'-15'; Rec=98%; RQD=46%
15		50 (0.5) 50 (0.25)								Run:15'-20'; Rec=45%; RQD=59%
709. 20		32 (6) 40 (6)								
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433674, Longitude: -97.793729. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-5'; Wet Rotary: 5'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-39
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/20/23
Grnd. Elev. 729.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
704.25		50 (2.5) 50 (1.5)	CLAY, very stiff, gray, with sand, lean (CL)			12	29	14		-200=84%; SS = 7-23-22
699.30		50 (1.5) 50 (0.5)	LIMESTONE, very hard, gray, moderately weathered			4				Run:25'-30'; Rec=53%; RQD=53% DD = 135 pcf; UC = 208 tsf
35										
40										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433674, Longitude: -97.793729. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA:0'-5'; Wet Rotary: 5'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-40
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/24/23
Grnd. Elev. 718.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test	Properties				Additional Remarks
				Lateral Deviator Press. (psi) Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
715.5			SAND, reddish brown, clayey, with ferrous stains and limestone gravel (SC)		1	23	10		-200=28%; SS = 50/5.75"
			GRAVEL, dense to loose, tan, clayey, with sand and limestone fragments (GC)		1	22	10		-200=16%; SS = 15-3-4 Organic Content = 0.1%
5		23 (6) 50 (5)			4				SS = 13-18-50/5" Sulfate Content = 30.5 ppm Chloride Content = 80 ppm
10		4 (6) 8 (6)			12				-200=42%; SS = 5-4-2
705.					15	32	18		-200=85%; PP = 4.5 tsf
15		50 (4) 50 (2)	CLAY, very hard, gray, with sand and ferrous stains, lean (CL)		12	25	12		-200=74%; SS = 21-31-41
700.			LIMESTONE, very hard, gray to dark gray, moderately to highly weathered						Run:18'-20'; Rec=58%; RQD=93%
20		50 (3) 50 (1)			1				Run:20'-25'; Rec=22%; RQD=0%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433786, Longitude: -97.793206. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-18'; Wet Rotary: 18'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-40
Structure Retaining Wall
Station
Offset

District Dallas
Date 7/24/23
Grnd. Elev. 718.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			LIMESTONE, very hard, gray to dark gray, moderately to highly weathered							DD = 160 pcf; UC = 623 tsf
25		50 (3.5) 50 (1)								Run:25'-30'; Rec=63%; RQD=13%
30		50 (4.5) 50 (3)								SS = 50/3.5"
683.35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433786, Longitude: -97.793206. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA:0'-18'; Wet Rotary: 18'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: B. Wall

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-45
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/17/23
Grnd. Elev. 706.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
705.			PAVEMENT, 6" Asphalt over 6" Base			8				SS = 4-6-5
			CLAY, stiff to very soft, brown, silty, with sand, lean (CL-ML)			9	20	4		-200=55%; SS = 5-7-3
5		13 (6) 24 (6)				12				SS = 7-8-9
						13	21	7		-200=72%; SS = 13-13-19
10		13 (6) 19 (6)				14				SS = 6-6-8
15		1 (6) 1 (6)				23	23	6		Sulfate Content = 184 ppm Chloride Content = 100 ppm
20		1 (6) 1 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434002, Longitude: -97.788177. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). Air Rotary:0'-40'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-45
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/17/23
Grnd. Elev. 706.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			CLAY, stiff to very soft, brown, silty, with sand, lean (CL-ML)			22				SS = 0-1-1
25		0 (6) 0 (6)								
679.5						20	22	9		-200=63%; SS = 0-1-1
			CLAY, very soft, brown, sandy, lean (CL)							
30		8 (6) 9 (6)								
674.5						12				-200=14%; SS = 6-11-9
			SAND, slightly compact, brown, with gravel (SW)							
671.35		18 (6) 21 (6)								
			CLAY, stiff, brown, sandy, lean (CL)			15	21	8		-200=65%; SS = 4-4-8
666.40		10 (6) 10 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434002, Longitude: -97.788177. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). Air Rotary:0'-40'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole RW-46
Structure Retaining Wall
Station
Offset

District Dallas
Date 8/17/23
Grnd. Elev. 705.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
704.1			PAVEMENT, 6" Asphalt over 5" Base			10	24	14		-200=21%; SS = 8-6-7
			SAND, FILL, brown, clayey, with limestone gravel (SC)							
702.5						9				-200=52%; SS = 5-15-17
			CLAY, very stiff to stiff, brown, sandy, silty, lean (CL-ML)							
5		23 (6) 23 (6)								-200=66%; SS = 8-11-12 SS = 10-11-19 Sulfate Content = 120 ppm
						12	22	7		
						13				
10		18 (6) 15 (6)								-200=76%; SS = 5-8-12
						14	24	9		
693.5			CLAY, very soft, brown, with sand, lean (CL)							
15		0 (6) 1 (6)								25
20		2 (6) 3 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434119, Longitude: -97.787609. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). Air Rotary:0'-11.5', Wet Rotary: 15.5'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole P-01
Structure Pavement
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 789.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
788.3			PAVEMENT, 6" Asphalt over 3" Base							SS = 29-19-11
			CLAY, FILL: light brown, crushed base material, with sand and gravel, lean (CL)							
785.			GRAVEL, loose, light brown, clayey (GC)							SS = 30-33-50/5"
5		9 (6) 10 (6)								
						9	25	10		-200=27%; SS = 8-5-3
										Organic Content = 0.6%
781.			CLAY, stiff to very soft, light brown, sandy, with gravel, lean (CL)			9				-200=50%; SS = 2-4-8
10		14 (6) 13 (6)								
						13	26	11		-200=50%; SS = 5-5-3
15		1 (6) 2 (6)								
						7				-200=35%; SS = 5-9-15
769. 20		8 (6) 9 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434950, Longitude: -97.805113. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-20'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole P-03
Structure Pavement
Station
Offset

District Dallas
Date 7/18/23
Grnd. Elev. 754.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
753.			PAVEMENT, 7" Asphalt over 6" Base			8	26	11		-200=32%; SS = 5-9-10 Organic Content = 0.9% Sulfate Content = 1020 ppm -200=86%; SS = 6-7-12
751.5			SAND, brown, clayey, with limestone gravel (SC)			18	50	29		
746.			CLAY, stiff, brown, with limestone fragments, fat (CH)							
5		10 (6) 16 (6)				20				SS = 8-15-12
746.			WEATHERED LIMESTONE, stiff, tan, with sand and gravel nodules							SS = 4-6-10
10		16 (6) 21 (6)								SS = 8-14-23
740.			LIMESTONE, very hard, tan to gray, moderately weathered							Run:15'-20'; Rec=100%; RQD=100%
15		50 (0.125) 50 (0)								
734.		50 (0) 50 (0)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434161, Longitude: -97.798982. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-15'; Wet Rotary: 15'-20'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole P-04
Structure Pavement
Station
Offset

District Dallas
Date 7/20/23
Grnd. Elev. 717.00 ft
GW Elev. 701.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Deviator Press. (psi)	Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
716.2			PAVEMENT, 7" Asphalt over 3" Base			4				SS = 10-8-12 Sulfate Content = 140 ppm -200=42%; SS = 50/6"
			SAND, FILL: dark brown, crushed base material, clayey, with limestone gravel (SC)			2				
713.			LIMESTONE, very hard, gray, with seams of shale, moderately weathered							
5		50 (1) 50 (0.5)								Run:5'-10'; Rec=100%; RQD=100%
707.	10	50 (2) 50 (0)	GRAVEL, very hard, gray, poorly graded, with sand (GP)			4				Run:10'-15'; Rec=0%; RQD=0% -200=5%; SS = 50/0.25"
702.	15	50 (0.25) 50 (0.25)	CLAY, very hard, gray, gravelly, with sand, lean (CL)							Run:15'-20'; Rec=0%; RQD=0%
						17	28	13		-200=68%; SS = 50/0"
697.	20	50 (2) 50 (1)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433923, Longitude: -97.794807. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-5'; Water Meter: 5'-20'. Groundwater was encountered during drilling at 16'. Caved in during drilling at 18.5'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole P-05
Structure Pavement
Station
Offset

District Dallas
Date 7/16/23
Grnd. Elev. 711.00 ft
GW Elev. 698.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
710.2			PAVEMENT, 4" Asphalt over 6" Base			6				SS = 8-41-34 Organic Content = 1.3% Sulfate Content = 1480 ppm -200=65%; SS = 15-16-16
709.			CLAY, FILL: tan, crushed base material, lean (CL)							
			CLAY, very stiff, brown, sandy, silty, lean (CL-ML)			10	20	7		
5		31 (6) 39 (6)								-200=73%; SS = 810-11-13 -200=84%; SS = 8-12-12
704.5			CLAY, stiff, brown, silty, with sand (CL-ML)			12				
						14	22	7		
10		22 (6) 10 (6)								-200=85%; PP = 1.0 tsf DD = 112 pcf, UC = 0.83 tsf
698.			CLAY, very soft, dark brown to brown, with sand, lean (CL)			21	25	9		
15		1 (6) 2 (3)								19
20		1 (6) 1 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434286, Longitude: -97.787637. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). Air Meter: 0'-20'. Groundwater was encountered during drilling at 13'. Caved during drilling at 20'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole P-06
Structure Pavement
Station
Offset

District Dallas
Date 7/24/23
Grnd. Elev. 708.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
707.1			PAVEMENT, 6" Asphalt over 5" Base			6				SS = 11-9-10
			CLAY, stiff, brown, with sand and limestone fragments, lean (CL)			8	23	8		-200=79%; SS = 8-10-18
5		14 (6) 19 (6)				8				SS = 6-9-13
699.5						7	22	9		-200=52%; SS = 7-11-13
10		2 (6) 1 (6)	CLAY, very soft, dark brown to brown, sandy, lean (CL)			11				SS = 1-1-1
15		2 (6) 1 (6)								SS = 1-2-1
688.20		3 (6) 3 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434168, Longitude: -97.785644. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Mud Rotary: 0'-20'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole P-13
Structure Pavement
Station
Offset

District Dallas
Date 8/7/23
Grnd. Elev. 782.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
781.			PAVEMENT, 7" Asphalt over 6" Base			7	31	18		-200=53%; SS = 12-6-6 Organic Content = 1.7%
			CLAY, very soft, dark brown, sandy, with limestone fragments, lean (CL)			17				PP = 3.25 tsf
5		4 (6) 3 (6)								
775.5			CLAY, stiff, dark brown, with sand, fat (CH)			20	55	38		-200=84%; PP = 3.0 tsf
						18				SS = 3-6-9
10		12 (6) 12 (6)								
770.5			CLAY, very stiff to hard, light brown to brown, with sand and limestone fragments, lean (CL)			10	30	17		-200=73%; SS = 8-12-15 with calcareous deposits from 11.5'-13'
15		28 (6) 25 (6)								
						9				SS = 8-13-20
20		50 (5) 50 (4)								
762.										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433339, Longitude: -97.800731. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). PP= Pocket Penetrometer (tsf). SFA: 0'-20'. Groundwater was not encountered during drilling. Caveed in during drilling at 20'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole P-14
Structure Pavement
Station
Offset

District Dallas
Date 8/6/23
Grnd. Elev. 767.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
766.			PAVEMENT, 6" Asphalt over 7" Base			15				SS = 8-6-6
			CLAY, soft, light brown, sandy, with limestone fragments and calcareous deposits, lean (CL)			9	30	16		Sulfate Content = 100 ppm
										-200=68%; SS = 7-15-16
5		9 (6) 8 (6)				8				SS = 4-5-4
						4	23	5		-200=61%; SS = 3-5-3
758.5			CLAY, very stiff, brown, sandy, silty, lean (CL-ML)							
10		24 (6) 25 (6)				10				SS = 10-16-18
755.5			CLAY, hard, light brown, sandy, with calcarreous deposits, lean (CL)							
15		50 (2) 50 (2)				7				SS = 50/4"
750.5			WEATHERED LIMESTONE, very hard, tan							
20		50 (1) 50 (0.5)								
747.										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434784, Longitude: -97.798786. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). SFA: 0'-20'. Groundwater was not encountered during drilling. Caved in during drilling at 20'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 1

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole P-16
Structure Pavement
Station
Offset

District Dallas
Date 7/16/23
Grnd. Elev. 733.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
732.2			PAVEMENT, 6" Asphalt over 4" Base			2				SS = 50/5"
			GRAVEL, FILL: very hard, light brown and tan, clayey, with sand and crushed limestone gravel (GC)			8	48	34		-200=13%; SS = 18-10-17
5		50 (2) 50 (1)								
726.5			WEATHERED LIMESTONE, very hard, brown			1				SS = 50/2"
725.			LIMESTONE, very hard, brown to gray, moderately weathered			2				SS = 50/1" DD = 149 pcf; UC = 307 tsf
10						1				Run:10'-15';Rec=100%;RQD=27%
15		50 (0.5) 50 (0.5)				1				Run:15'-20';Rec=67%;RQD=45%
713. 20		50 (6) 50 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.435171, Longitude: -97.794300. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-10'; Wet Rotary: 10'-20'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole O-1
Structure Overhead Sign
Station
Offset

District Dallas
Date 7/20/23
Grnd. Elev. 777.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
776.2			PAVEMENT, 6" Asphalt over 4" Base			6	30	16		-200=42%; SS = 12-9-5 Sulfate Content = 1160 ppm
			SAND, slightly compact, dark brown, clayey, with limestone gravel (SC)			9	38	23		
5		18 (6) 17 (6)								
770.5						8				-200=57%SS = 8-13-18
			CLAY, stiff, light gray, sandy, with seams of weathered limestone, lean (CL)			10	43	30		-200=62%; SS = 5-13-15
10		22 (6) 14 (6)								
						33				SS = 5-5-10
762. 15		50 (1) 50 (0.25)								
			WEATHERED LIMESTONE, very hard, light gray to gray							Run:16'-20'; Rec=100%; RQD=77%
20		50 (0.25) 50 (0.25)								Run:20'-25'; Rec=98%; RQD=93%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.43445129, Longitude: -97.80271097. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-16'; Water Rotary: 16'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole O-1
Structure Overhead Sign
Station
Offset

District Dallas
Date 7/20/23
Grnd. Elev. 777.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
25		50 (0.25) 50 (0)	WEATHERED LIMESTONE, very hard, light gray to gray							Run:25'-30'; Rec=100%; RQD=100%
747. 30		50 (0.25) 50 (0.25)								
35										
40										
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.43445129, Longitude: -97.80271097. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-16'; Water Rotary: 16'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole O-2
Structure Overhead Sign
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 798.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
797.3			PAVEMENT, 6" Asphalt over 3" Base							
			GRAVEL, dark brown and gray, clayey, with sand and limestone fragments (GC)			12	35	22		-200=41%; SS = 6-6-6 Sulfate Content = 1160 ppm Organic Content = 1.4% SS = 16-22-32
795.5			WEATHERED LIMESTONE, very hard, light gray							
5		50 (0.25) 50 (0)								
791.			LIMESTONE, very hard, light gray, moderately weathered, with silty clayey seams							SS = 50/5" Run:7'-10'; Rec=33%; RQD=83% DD = 154 pcf; UC = 336 tsf
788.		50 (1) 50 (0.5)								Run:10'-15'; Rec=15%; RQD=0%
			WEATHERED LIMESTONE, very hard, light gray to gray, clayey, with sand							
15		24 (6) 35 (6)								
20		50 (0.25) 50 (0.25)								SS = 50/2"

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.43500001, Longitude: -97.80724874. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-8'; Water Rotary: 8'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 2

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole O-2
Structure Overhead Sign
Station
Offset

District Dallas
Date 7/19/23
Grnd. Elev. 798.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			WEATHERED LIMESTONE, very hard, light gray to gray, clayey, with sand			12	36	19		-200=76%; SS = 50/3"
25		39 (6) 50 (5)								SS = 50/5"
768. 30		50 (0.25) 50 (0.25)								
35										
40										

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.43500001, Longitude: -97.80724874. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-8'; Water Rotary: 8'-30'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

1 of 6

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-05
Structure Bridge
Station
Offset

District Dallas
Date 8/8/23
Grnd. Elev. 712.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
711.1			PAVEMENT, 7" Asphalt over 4" Base							SS = 50/6"
			SAND, FILL: loose, dark brown, clayey (SC)							SS = 12-15-18
5		9 (6) 8 (6)								
						13	35	24		-200=50%; SS = 3-5-4 Organic Content = 1.5%
704.			CLAY, FILL: soft, brown, sandy, lean (CL)			13	46	32		-200=56%; SS = 4-8-11 Sulfate Content = 226 ppm Chloride Content = 160 ppm
10		7 (6) 10 (6)								
700.5			GRAVEL, FILL: compact, dark brown, clayey, with sand (GC)			36	47	34		-200=16%; SS = 5-10-6
15		26 (6) 18 (6)								
695.5			CLAY, FILL: stiff, dark brown, sandy, fat (CH)			11	55	37		-200=56%; SS = 5-6-9
20		15 (6) 13 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434194, Longitude: -97.792291. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-45'; Water Meter: 45'-120. Groundwater was not encountered during drilling. Caved in during drilling at 118.58'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

2 of 6

WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-05
Structure Bridge
Station
Offset

District Dallas
Date 8/8/23
Grnd. Elev. 712.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
690.5			CLAY, FILL: stiff, dark brown, sandy, fat (CH)			27	38	25		-200=34%; SS = 4-6-8
			SAND, compact to loose, dark brown to brown, clayey, with gravel (SC)							Organic Content = 1.6% Sulfate Content = 320 ppm Chloride Content = 100 ppm
25		29 (6) 23 (6)								
						14	38	26		-200=25%; SS = 10-11-13
30		11 (6) 6 (6)								
680.5						23	25	12		-200=73%
			CLAY, soft to very soft, brown to gray, with sand, lean (CL)							
35		4 (6) 5 (6)								
						20	27	13		-200=88%; SS = 4-3-2
40		23 (6) 18 (6)								very stiff at 40'

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434194, Longitude: -97.792291. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-45'; Water Meter: 45'-120. Groundwater was not encountered during drilling. Caved in during drilling at 118.58'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



WinCore
Version 3.3

DRILLING LOG

3 of 6

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-05
Structure Bridge
Station
Offset

District Dallas
Date 8/8/23
Grnd. Elev. 712.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
667. 45		4 (6) 3 (6)	CLAY, soft to very soft, brown to gray, with sand, lean (CL)			15	44	29		-200=83%; SS = 4-10-13
						19	66	46		
50		34 (6) 36 (6)	SHALE, very hard, dark gray to gray, sandy							Run:45'-50';Rec=90%;RQD=74%
55		12 (6) 19 (6)	SHALE, very hard, dark gray to gray, sandy							Run:50'-55';Rec=77%;RQD=0%
652. 60		50 (0.5) 50 (0.25)	SHALE, very hard, dark gray to gray, sandy							Run:55'-60';Rec=33%;RQD=20%
652. 60		50 (0.5) 50 (0.25)	SHALE, very hard, dark gray to gray, sandy							Run:60'-65';Rec=88%;RQD=25%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434194, Longitude: -97.792291. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-45'; Water Meter: 45'-120. Groundwater was not encountered during drilling. Caved in during drilling at 118.58'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-05
Structure Bridge
Station
Offset

District Dallas
Date 8/8/23
Grnd. Elev. 712.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			LIMESTONE, very hard, gray, moderately weathered							DD = 150 pcf; UC = 585 tsf
65		50 (0.5) 50 (0.25)								Run:65'-70';Rec=60%;RQD=31%
642. 70		50 (0.25) 50 (0.25)	SHALE, very hard, dark gray to light gray, moderately weathered							Run:70'-75';Rec=7%;RQD=0%
75		50 (1) 50 (0.25)								Run:75'-80';Rec=23%;RQD=0%
80		50 (3) 50 (2)								Run:80'-85';Rec=32%;RQD=21%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434194, Longitude: -97.792291. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-45'; Water Meter: 45'-120. Groundwater was not encountered during drilling. Caved in during drilling at 118.58'. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-05
Structure Bridge
Station
Offset

District Dallas
Date 8/8/23
Grnd. Elev. 712.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
85		50 (3) 50 (3)	SHALE, very hard, dark gray to light gray, moderately weathered							Run:85'-90';Rec=88%;RQD=51%
90		50 (4) 50 (4)								Run:90'-95';Rec=47%;RQD=61%
95		50 (4) 50 (2)								Run:95'-100';Rec=75%;RQD=62%
100		50 (3) 50 (2)								Run:100'-105';Rec=100%;RQD=90%
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434194, Longitude: -97.792291. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-45'; Water Meter: 45'-120. Groundwater was not encountered during drilling. Caved in during drilling at 118.58'. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-05
Structure Bridge
Station
Offset

District Dallas
Date 8/8/23
Grnd. Elev. 712.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
607.	105	50 (0.25) 50 (0)	SHALE, very hard, dark gray to light gray, moderately weathered							Run:105'-110';Rec=75%;RQD=0%
			LIMESTONE, very hard, gray, moderately weathered							
	110	50 (2) 50 (2)								Run:110'-115';Rec=28%;RQD=71%
	115	50 (1.5) 50 (0.25)								
592.	120	50 (2) 50 (2)								
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434194, Longitude: -97.792291. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-45'; Water Meter: 45'-120. Groundwater was not encountered during drilling. Caved in during drilling at 118.58'. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-09
Structure Bridge
Station
Offset

District Dallas
Date 8/3/23
Grnd. Elev. 711.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
710.2			PAVEMENT, 4" Asphalt over 1.5" Base							
			WEATHERED LIMESTONE, FILL: crushed limestone							SS = 17-19-14
708.			CLAY, stiff to very stiff, brown, sandy, silty, lean (CL-ML)			8	21	7		-200=57%; SS = 8-16-14 Organic Content = 0.3%
5		13 (6) 14 (6)				11	21	6		-200=55%; SS = 12-14-15
						6	20	5		-200=66%; SS = 12-13-17
10		25 (6) 19 (6)				12	23	15		-200=84%; SS = 9-9-7
699.5			CLAY, stiff, brown to dark brown, with sand, lean (CL)			14	25	15		-200=71%; SS = 7-13-18 Sulfate Content = 362 ppm Chloride Content = 80 ppm
15		14 (6) 8 (6)								
693.			CLAY, very soft, brown, sandy, silty, lean (CL-ML)							
20		4 (6) 3 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434280, Longitude: -97.789250. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-23'; Mud Rotary: 25'-100'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall and J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-09
Structure Bridge
Station
Offset

District Dallas
Date 8/3/23
Grnd. Elev. 711.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
684.5		3 (6) 2 (6)	CLAY, very soft, brown, sandy, silty, lean (CL-ML)			19	21	7		-200=56%; SS = 1-1-1
679.5		4 (6) 3 (6)	SAND, very loose, brown, clayey (SC)			21	25	10		-200=46%; SS = 4-3-2
674.5		5 (6) 5 (6)	SAND, very loose to loose, brown, poorly graded (SP)			24				SS = 1-1-1 Sulfate Content = 236 ppm Chloride Content = 140 ppm
674.5		3 (6) 2 (6)	SAND, very loose to loose, brown, clayey (SC)			16	28	16		-200=3%; SS = 1-1-1
40		3 (6) 2 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434280, Longitude: -97.789250. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-23'; Mud Rotary: 25'-100'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall and J. Flores

Organization: Arias



WinCore
Version 3.3

DRILLING LOG

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County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-09
Structure Bridge
Station
Offset

District Dallas
Date 8/3/23
Grnd. Elev. 711.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
45		8 (6) 7 (6)	SAND, very loose to loose, brown, clayey (SC)			17				SS = 1-1-2
			GRAVEL, compact, brown, poorly graded (GP)			20	23	8		-200=25%; SS = 3-8-6
663.										
50		33 (6) 17 (6)	GRAVEL, compact, brown, well graded, with sand (GW)			16				SS = 18-23-14
55		26 (6) 50 (4)	GRAVEL, compact, brown, well graded, with sand (GW)			7				-200=8%; SS = 14-18-27
653.										
60		30 (6) 28 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434280, Longitude: -97.789250. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-23'; Mud Rotary: 25'-100'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall and J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-09
Structure Bridge
Station
Offset

District Dallas
Date 8/3/23
Grnd. Elev. 711.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Deviator Press. (psi)	Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
65		34 (6) 18 (6)	GRAVEL, compact, brown, well graded, with sand (GW)			14				SS = 50/5"
		50 (4) 50 (4)	LIMESTONE, very hard, dark gray, slightly weathered			5				-200=3%; SS = 5-6-6
641. 70		50 (4) 50 (4)	LIMESTONE, very hard, dark gray, slightly weathered							Run:70'-75';Rec=55%;RQD=97%
75		50 (0.25) 50 (0.25)				1				DD = 156 pcf; UC = 585 tsf
										Run:75'-80';Rec=93%;RQD=48%
631. 80		50 (5) 35 (6)				10				Run:80'-85';Rec=80%;RQD=64%
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434280, Longitude: -97.789250. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-23'; Mud Rotary: 25'-100'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth. The ground water elevation was not determined during the course of this boring.										

Driller: TX Geo Bore

Logger: B. Wall and J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-09
Structure Bridge
Station
Offset

District Dallas
Date 8/3/23
Grnd. Elev. 711.00 ft
GW Elev. N/A

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			SANDSTONE, very dense, dark gray to gray, slightly fragmented							DD = 116 pcf; UC = 45 tsf
85		43 (6) 45 (6)				16				Run=85'-90';Rec=37%;RQD=0%
621. 90		50 (2) 50 (1)	SHALE, very hard, light gray							Run:90'-95';Rec=40%;RQD=0%
95		50 (3) 50 (3)								
611. 100		50 (2) 50 (2)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434280, Longitude: -97.789250. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-23'; Mud Rotary: 25'-100'. Groundwater was not encountered during drilling. Surface elevation estimated by Google Earth.

The ground water elevation was not determined during the course of this boring.

Driller: TX Geo Bore

Logger: B. Wall and J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-10
Structure Bridge
Station
Offset

District Dallas
Date 7/31/23
Grnd. Elev. 710.00 ft
GW Elev. 685.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
709.			PAVEMENT, 8" Asphalt over 8" Base			6	21	8		-200=32%; SS = 6-5-7
			SAND, FILL: dark brown, clayey, with limestone gravel (SC)							Organic Content = 0.8%
707.5						7	21	9		-200=55%; SS = 7-8-12
			CLAY, soft, brown, sandy, lean (CL)							
5		7 (6) 11 (6)								
						11	20	8		-200=69%; SS = 7-7-11
701.5						12	20	6		-200=61%; SS = 10-12-17
			CLAY, very stiff, brown, sandy, silty, lean (CL-ML)							Organic Content = 0.5%
10		22 (6) 26 (6)								
						12	22	8		-200=76%; SS = 8-9-11
698.5			CLAY, stiff to very stiff, brown to dark brown, with sand, lean (CL)							Sulfate Content = 308 ppm Chloride Content = 120 ppm
15		8 (6) 12 (6)								
						12	22	9		-200=73%; SS = 8-8-10
20		22 (6) 22 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434012, Longitude: -97.789379. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-70'; Wet Rotary: 70'-120'. Groundwater was encountered during drilling at 25'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-10
Structure Bridge
Station
Offset

District Dallas
Date 7/31/23
Grnd. Elev. 710.00 ft
GW Elev. 685.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
687.			CLAY, stiff to very stiff, brown to dark brown, with sand, lean (CL)			12	23	10		-200=74%; SS = 6-6-5
25		1 (6) 2 (6)	CLAY, very soft, brown, sandy, silty, lean (CL-ML)							
30		3 (6) 4 (6)				21	20	6		-200=68%; SS = 1-1-2
677.						23				SS = 2-2-3
35		3 (6) 4 (6)	CLAY, very soft to soft, brown, sandy, lean (CL)							
40		6 (6) 6 (6)				17	24	12		-200=70%; SS = 2-3-4

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434012, Longitude: -97.789379. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-70'; Wet Rotary: 70'-120'. Groundwater was encountered during drilling at 25'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-10
Structure Bridge
Station
Offset

District Dallas
Date 7/31/23
Grnd. Elev. 710.00 ft
GW Elev. 685.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
668.5			CLAY, very soft to soft, brown, sandy, lean (CL)			14	19	5		-200=41%; SS = 5-7-8
			SAND, loose, brown to light brown, silty, clayey (SC-SM)							
45		8 (6) 8 (6)				18				-200=25%; SS = 4-3-4
662.			SAND, compact to very dense, dark brown to brown, clayey, with gravel (SC)							
50		20 (6) 30 (6)				4				SS = 5-19-21
55		30 (6) 43 (6)				12	22	9		-200=20%; SS = 8-22-22
60		50 (3) 50 (2)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434012, Longitude: -97.789379. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-70'; Wet Rotary: 70'-120'. Groundwater was encountered during drilling at 25'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-10
Structure Bridge
Station
Offset

District Dallas
Date 7/31/23
Grnd. Elev. 710.00 ft
GW Elev. 685.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
647.5			SAND, compact to very dense, dark brown to brown, clayey, with gravel (SC)			8				SS = 50/3
65		42 (6) 34 (6)	CLAY, very stiff, gray, with sand, lean (CL)							
						18	41	25		-200=84%; SS = 12-15-25
640. 70		50 (3) 50 (1)	LIMESTONE, very hard, gray, slightly weathered			1				Run:70'-75'; Rec=63%; RQD=61% DD = 153 pcf; UC = 564 tsf
75		50 (0.25) 50 (0)								Run:75'-80'; Rec=37%; RQD=68%
80		32 (3) 50 (5)				14				Run:80'-85'; Rec=40%; RQD=23%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434012, Longitude: -97.789379. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-70'; Wet Rotary: 70'-120'. Groundwater was encountered during drilling at 25'. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-10
Structure Bridge
Station
Offset

District Dallas
Date 7/31/23
Grnd. Elev. 710.00 ft
GW Elev. 685.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
			LIMESTONE, very hard, gray, slightly weathered							DD = 109 pcf; UC = 24 tsf
85		50 (0.25) 50 (0.25)								Run:85'-90'; Rec=0%; RQD=0%
620. 90		50 (0.5) 50 (0.5)	SHALE, very hard, dark gray to gray, moderatly weathered							Run:90'-95'; Rec=15%; RQD=0%
95		50 (0.25) 50 (0.25)				17				Run:95'-100'; Rec=13%; RQD=0% DD = 122 pcf; UC = 138 tsf
610. 100		50 (0.5) 50 (0.25)								Run:100'-105'; Rec=74%; RQD=55%
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434012, Longitude: -97.789379. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-70'; Wet Rotary: 70'-120'. Groundwater was encountered during drilling at 25'. Surface elevation estimated by Google Earth. Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.										

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-10
Structure Bridge
Station
Offset

District Dallas
Date 7/31/23
Grnd. Elev. 710.00 ft
GW Elev. 685.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
605.	105	50 (3.5) 50 (4)	SANDSTONE, very hard, gray, moderately weathered							Run:105'-110'; Rec=84%; RQD=85%
			SHALE, very hard, reddish brown, moderately weathered							
	110	50 (5) 50 (3.5)								Run:110'-115'; Rec=100%; RQD=57%
	115	50 (3.5) 50 (3.5)								Run:115'-120'; Rec=64%; RQD=42%
592.			LIMESTONE, very hard, reddish brown, highly weathered							
590.	120	50 (3) 50 (3)								
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.434012, Longitude: -97.789379. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-70'; Wet Rotary: 70'-120'. Groundwater was encountered during drilling at 25'. Surface elevation estimated by Google Earth. Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.										

Driller: TX Geo Bore

Logger: L. Arizola

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-13
Structure Bridge
Station
Offset

District Dallas
Date 8/19/23
Grnd. Elev. 711.00 ft
GW Elev. 689.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
709.8			PAVEMENT, 7" Asphalt over 8" Base			1	16	6		-200=18%; SS = 8-12-9 Organic Content = 1.0% Sulfate Content = 140 ppm -200=33%; SS = 11-12-13
708.8			GRAVEL, FILL: dark brown, silty, clayey, with sand (GC-GM)			11	28	18		
			SAND, FILL: slightly compact to loose, brown, clayey, with limestone gravel (SC)							
5		15 (6) 15 (6)				10	40	28		-200=41%; SS = 7-8-9 Sulfate Content = 234 ppm Chloride Content = 100 ppm
						14	43	30		
10		7 (6) 7 (6)				6	45	34		
698.			GRAVEL, slightly compact, brown, clayey, with sand and limestone fragments (GC)							-200=37%; SS = 3-3-15 Sulfate Content = 120 ppm
15		16 (6) 14 (6)				10	41	29		
20		13 (6) 13 (6)								

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433943, Longitude: -97.792306. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-25'; Water Meter: 25'-100'. Groundwater was encountered at 22' during drilling. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



WinCore
Version 3.3

DRILLING LOG

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County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-13
Structure Bridge
Station
Offset

District Dallas
Date 8/19/23
Grnd. Elev. 711.00 ft
GW Elev. 689.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
689.5			GRAVEL, slightly compact, brown, clayey, with sand and limestone fragments (GC)			19	31	21		-200=68%; SS = 7-8-10
687.			CLAY, brown, sandy, with limestone fragments, lean (CL)							
686. 25		50 (4) 50 (3)	WEATHERED LIMESTONE, stiff, gray, silty			1				Run:25'-30'; Rec=42%; RQD=52%
30		12 (6) 22 (6)	LIMESTONE, very hard, tan, finely to moderately weathered							DD = 145 pcf; UC = 350 tsf
35		50 (0.25) 50 (0.25)								Run:30'-35'; Rec=60%; RQD=33%
671. 40		50 (0.5) 50 (0.25)								Run:35'-40'; Rec=22%; RQD=38%
										Run:40'-45'; Rec=55%; RQD=42%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433943, Longitude: -97.792306. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-25'; Water Meter: 25'-100'. Groundwater was encountered at 22' during drilling. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



WinCore
Version 3.3

DRILLING LOG

3 of 5

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-13
Structure Bridge
Station
Offset

District Dallas
Date 8/19/23
Grnd. Elev. 711.00 ft
GW Elev. 689.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
45		50 (5) 50 (3)	SHALE, very hard to hard, gray, sandy			7				Run:45'-50';Rec=70%;RQD=90% DD = 121 pcf; UC = 25 tsf
50		36 (6) 34 (6)								Run:50'-55';Rec=60%;RQD=0%
55		40 (6) 50 (5)								Run:55'-60';Rec=40%;RQD=0%
651. 60		50 (1) 50 (2)								Run:60'-65';Rec=92%;RQD=7%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433943, Longitude: -97.792306. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-25'; Water Meter: 25'-100'. Groundwater was encountered at 22' during drilling. Surface elevation estimated by Google Earth.

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Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-13
Structure Bridge
Station
Offset

District Dallas
Date 8/19/23
Grnd. Elev. 711.00 ft
GW Elev. 689.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
65		50 (0.25) 50 (0.25)	LIMESTONE, very hard, gray to dark gray, finely weathered							Run:65'-70';Rec=90%;RQD=56%
70		50 (1) 50 (0.25)								
636. 75		50 (0.5) 50 (0.25)	SHALE, very hard, dark gray, moderately weathered, sandy							Run:75'-80';Rec=58%;RQD=0%
80		50 (1) 50 (0.5)								
										Run:80'-85';Rec=73%;RQD=16%

Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433943, Longitude: -97.792306. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-25'; Water Meter: 25'-100'. Groundwater was encountered at 22' during drilling. Surface elevation estimated by Google Earth.

Any ground water elevation information provided on this boring log is representative of conditions existing on the day and for the specific location where this information was collected. The actual groundwater elevation may fluctuate due to time, climatic conditions, and/or construction activity.

Driller: TX Geo Bore Logger: J. Flores Organization: Arias



DRILLING LOG

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WinCore
Version 3.3

County Hood
Highway US 377
CSJ 0080-03-049

Hole BR-13
Structure Bridge
Station
Offset

District Dallas
Date 8/19/23
Grnd. Elev. 711.00 ft
GW Elev. 689.00 ft

Elev. (ft)	LOG	Texas Cone Penetrometer	Strata Description	Triaxial Test		Properties				Additional Remarks
				Lateral Press. (psi)	Deviator Stress (psi)	MC	LL	PI	Wet Den. (pcf)	
85		50 (4) 50 (4)	SHALE, very hard, dark gray, moderately weathered, sandy							Run:85'-90';Rec=60%;RQD=28%
90		50 (5) 50 (6)								
616. 95		50 (1) 50 (0.5)	SHALE, very hard, gray, moderately weathered, sandy, with seams of silt			27	52	36		Run:90'-95';Rec=5%;RQD=0% -200=99%
611. 100		50 (1) 50 (0.25)								

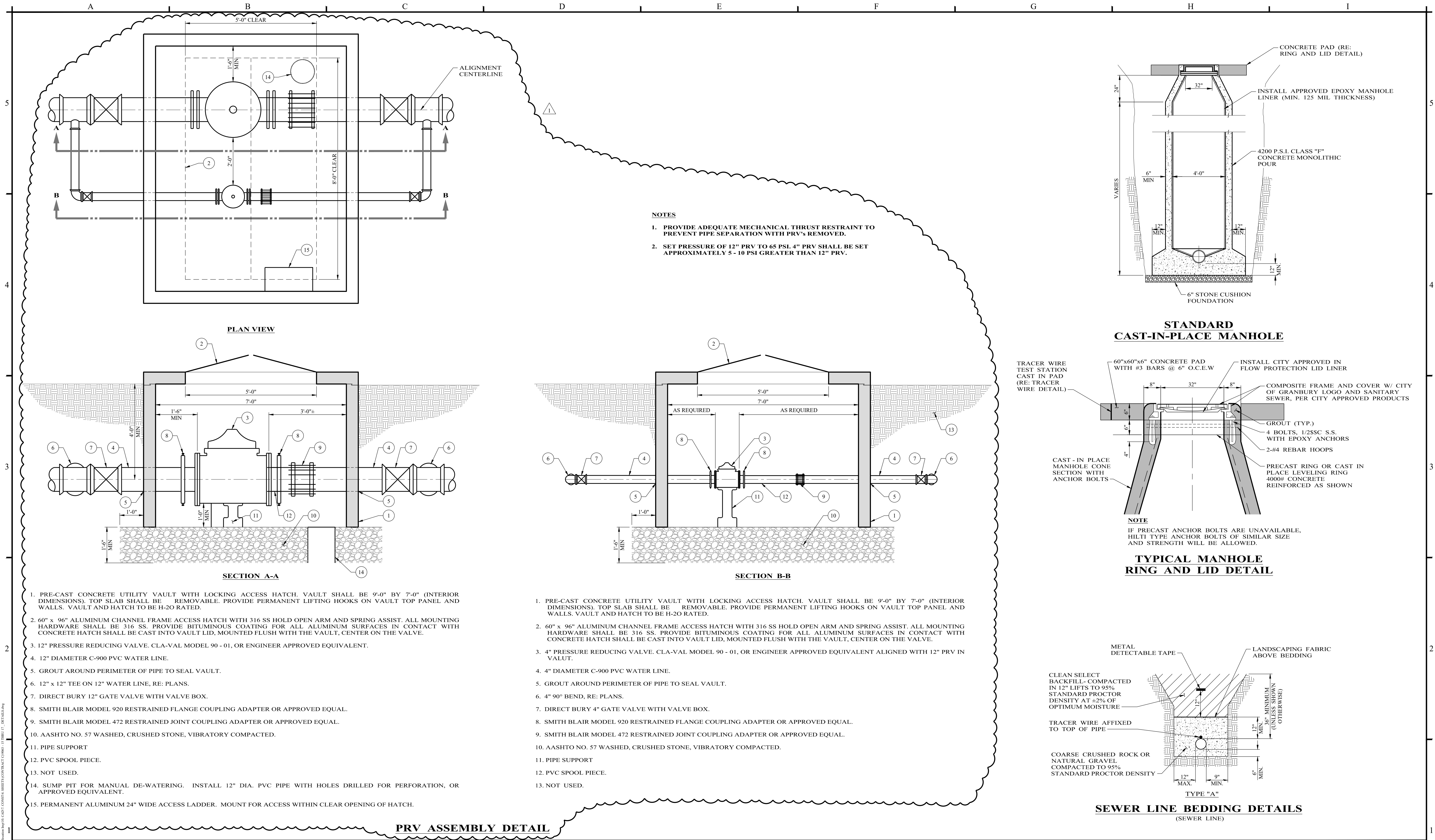
Remarks: Drilled at US HWY 377 Brazos River. Latitude: 32.433943, Longitude: -97.792306. Automatic TCP Hammer. SS = Split Spoon (with 170-lb hammer). Air Meter: 0'-25'; Water Meter: 25'-100'. Groundwater was encountered at 22' during drilling. Surface elevation estimated by Google Earth.

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Driller: TX Geo Bore

Logger: J. Flores

Organization: Arias



NO.	REVISION	DATE	11/13/2025			DESIGNED BY	SCALE	WATER & SEWER RELOCATION IMPROVEMENTS FOR THE US 377 BREAKOUT PROJECT CONTRACT C: US 377 WATER AND SEWER GRANBURY, HOOD COUNTY, TEXAS		PROJECT NO.:
1	ADDENDUM No. 2	11/13/2025				C. HAY	NO SCALE			9063
						DRAWN BY	DATE			SHEET No.
						D. HOWETH	10/30/2025			17
						CHECKED BY		UTILITY DETAILS		
						C. HAY				